

HEAT EXCHANGER

5

ABSTRACT OF THE DISCLOSURE

A heat exchanger is disclosed, in which a plurality of sets of two louvres (111c) substantially triangular in shape are formed in such a manner that the distance from a flat plate portion (111a) increases progressively downstream in an EGR gas flow. The two louvres (111c) of each set are arranged inwardly slanted along the exhaust gas flow, so that a vertical swirl is generated to draw the EGR gas flow between the louvres (111c). The EGR gas flowing in the vicinity of the flat plate portion (111a) and the EGR gas flowing in the vicinity of a vertical plate portion (111b) are thus accelerated. As a result, the heat conductivity of the EGR gas and the fins (111) are improved and the particulate matter attached on the surface of the fins (111) can be blown off, thereby preventing the clogging of the fins (111).

10
15
20

TOP SECRET//COMINT